

CLAIMS

1. A method for monitoring a polynucleotide amplification reaction comprising the steps of:
 - (i) carrying out a reaction for the amplification of a target polynucleotide;
 - 5 (ii) either during or after the amplification reaction contacting the amplified product with a molecule that binds to or interacts with a polynucleotide; and
 - (iii) detecting the interaction between the amplified product and the molecule by measuring changes in applied radiation,
 - 10 wherein the molecule is immobilised to a support material.
2. A method according to claim 1, wherein the molecule is a polymerase enzyme.
3. A method according to claim 1, wherein the molecule is a polynucleotide
- 15 of complementary sequence to that of the amplified product.
4. A method according to claim 3, wherein the molecule acts as a primer for the amplification reaction.
5. A method according to any preceding claim, wherein detection in step (iii) is carried out by applying surface electromagnetic waves and monitoring
- 20 changes in the waves.
6. A method according to claim 5, wherein detection is carried out by measuring changes in surface plasmon resonance.

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